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Radix-2-Trellis mit vier Zuständen, digitale Übertragung

Beispiel: Zweigmetrik ZM = [2 - Hammingdistanz (s, e)]

Original-Sequenz	0	1	1	0
Sende-Sequenz	00	11	01	01
Empfangs-Sequenz	00	11	01	01

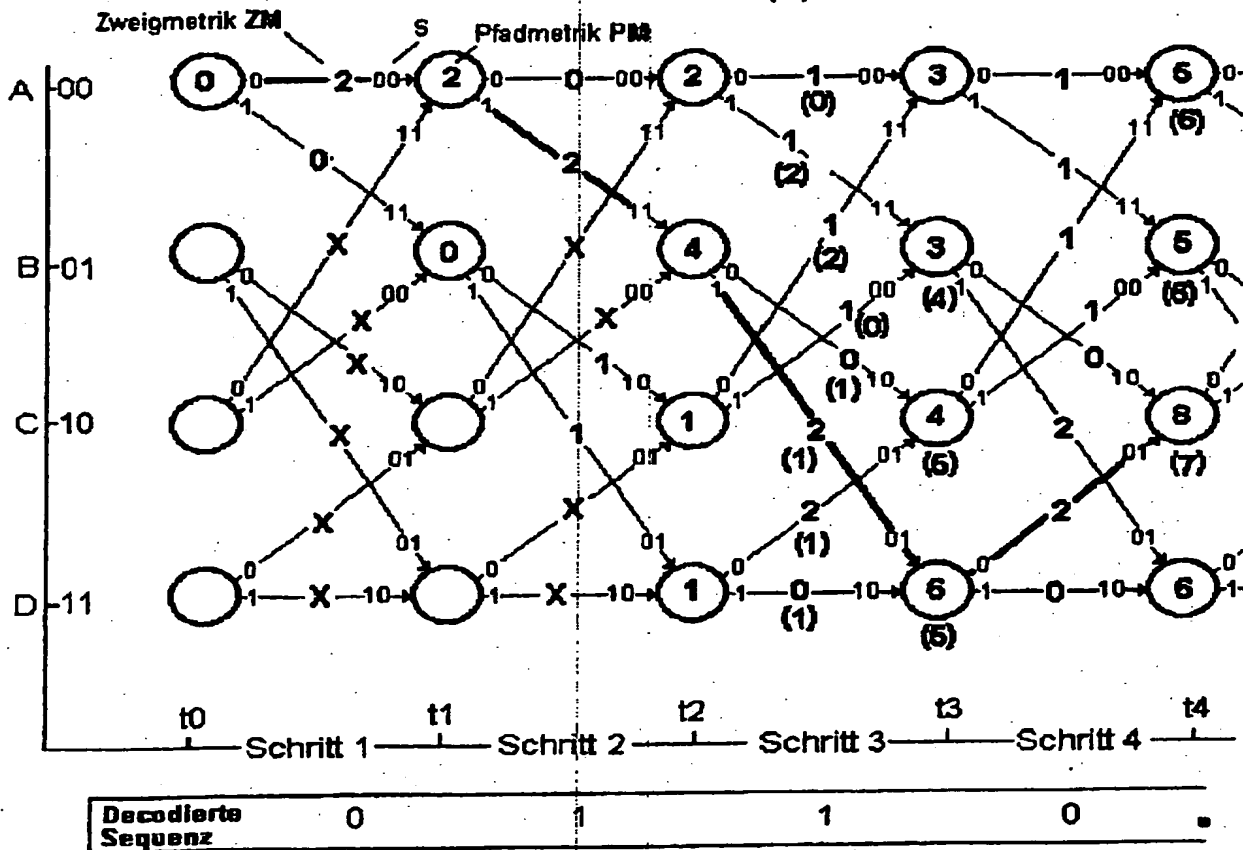


FIG. 1

Radix-2-Trellis mit vier Zuständen, analoge Übertragung

Beispiel: Zweigmetrik ZM = 3 - |s - e|

Original-Sequenz	0	1	1	0
Ausgabe-Sequenz	00	11	01	01
Sende-Sequenz	0	3	1	1
Empfange-Sequenz	0,2	2,7	1,6	1,1

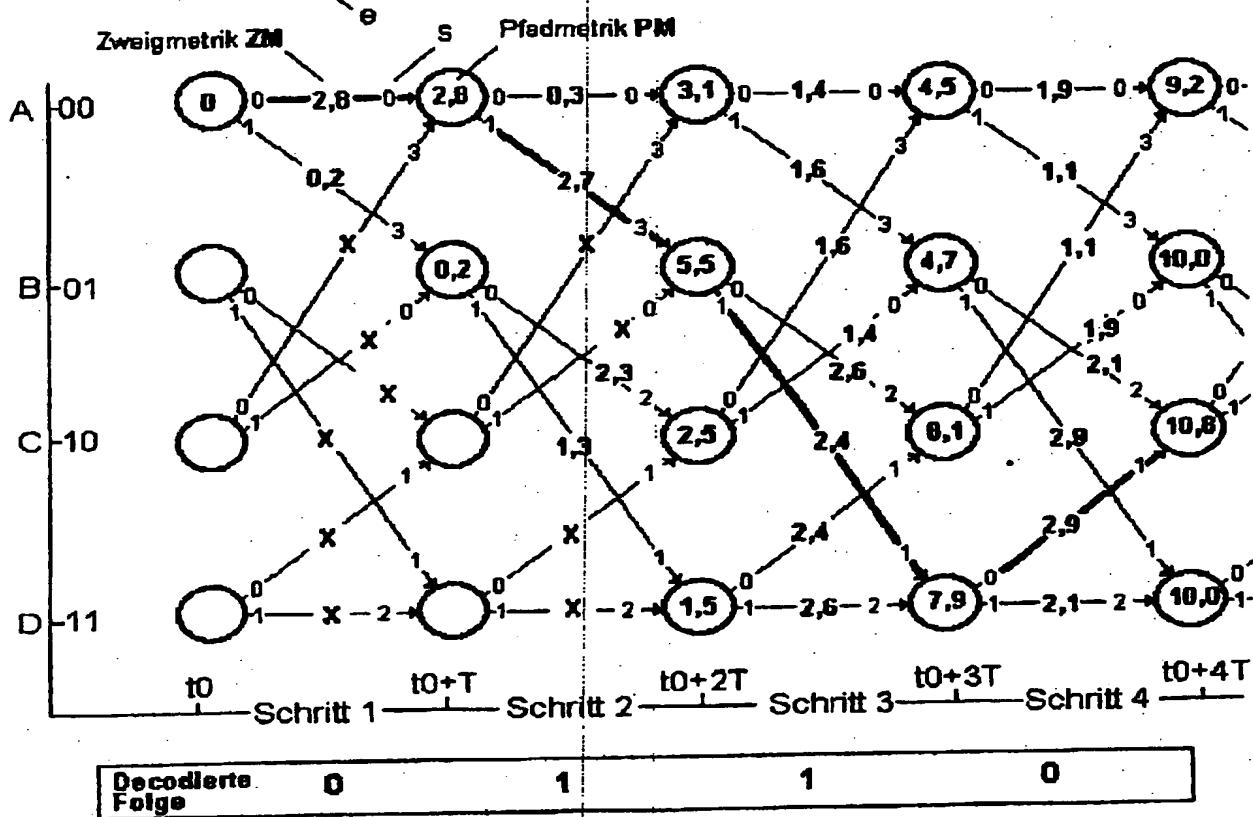


FIG. 2

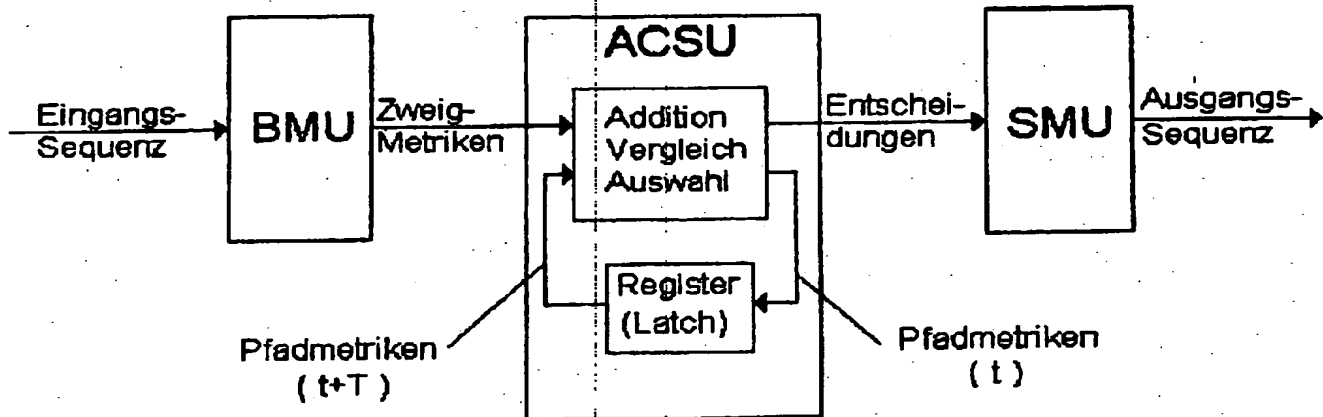


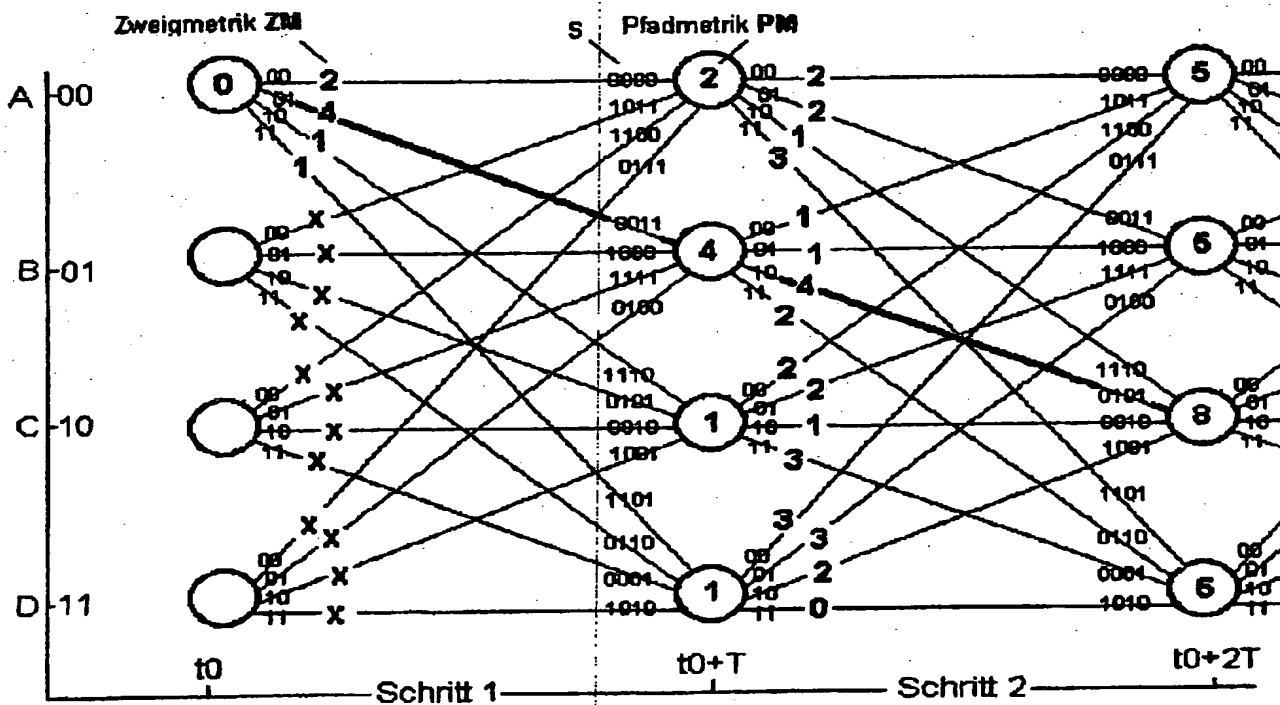
FIG. 3

Radix-4-Trellis mit vier Zuständen, digitale Übertragung

Beispiel: Zweigmetrik ZM = [4 - Hammingdistanz (s, e)]

Original-Sequenz	0	1	1	0	.	.
Ausgabe-Sequenz	00	11	01	01	.	.
Empfangs-Sequenz	00	11	01	01	.	.

e



Decodierte Sequenz	0	1	1	0	.	.
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FIG. 4

Radix-4-Trellis mit vier Zuständen, analoge Übertragung

Beispiel: Zweigmetrik $ZM = 6 - (|e0 - s0| + |e1 - s1|)$

Original-Sequenz	0	1	1	0	■	■
Ausgabe-Sequenz	00	11	01	01		
Sendesequenz	0	3	1	1		
Empfangs-Sequenz	0,2	2,7	1,6	1,1		
	e0	e1	e0	e1		

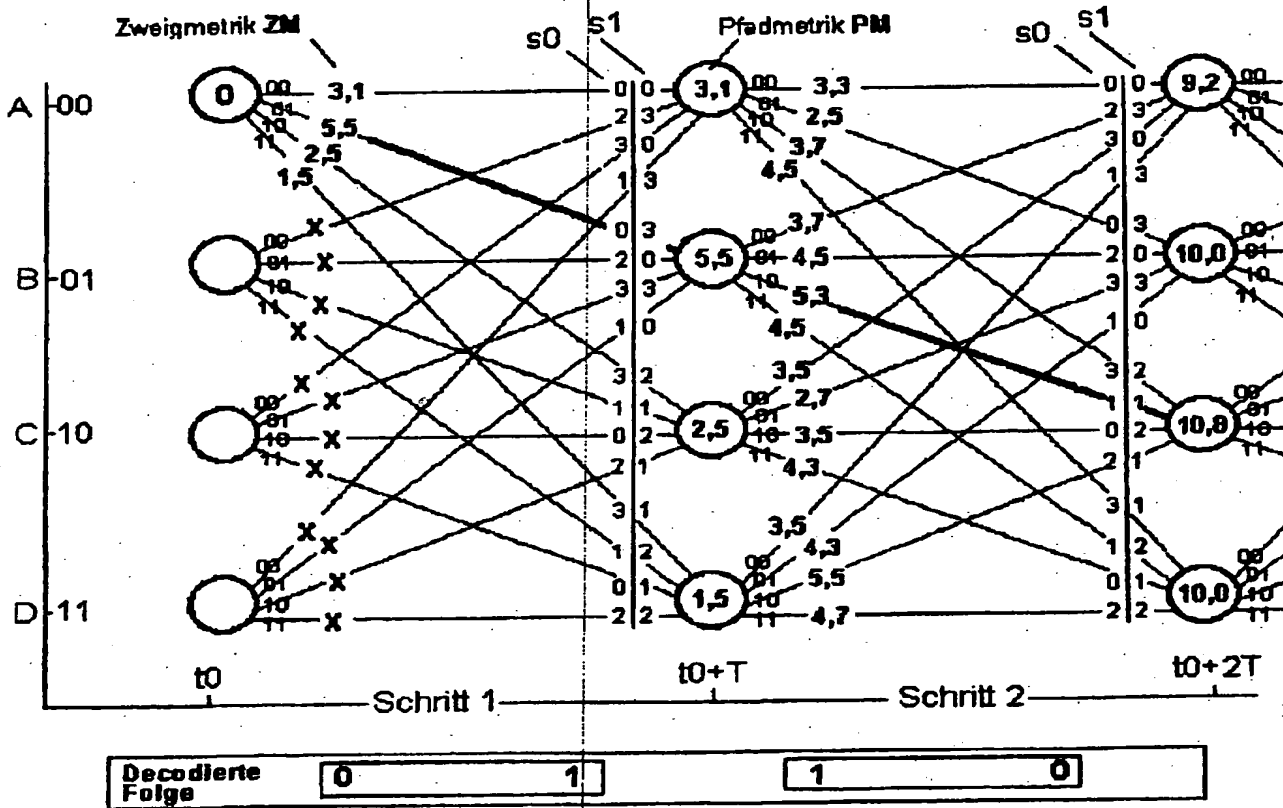


FIG. 5

Radix-4-Trellis mit acht Zuständen

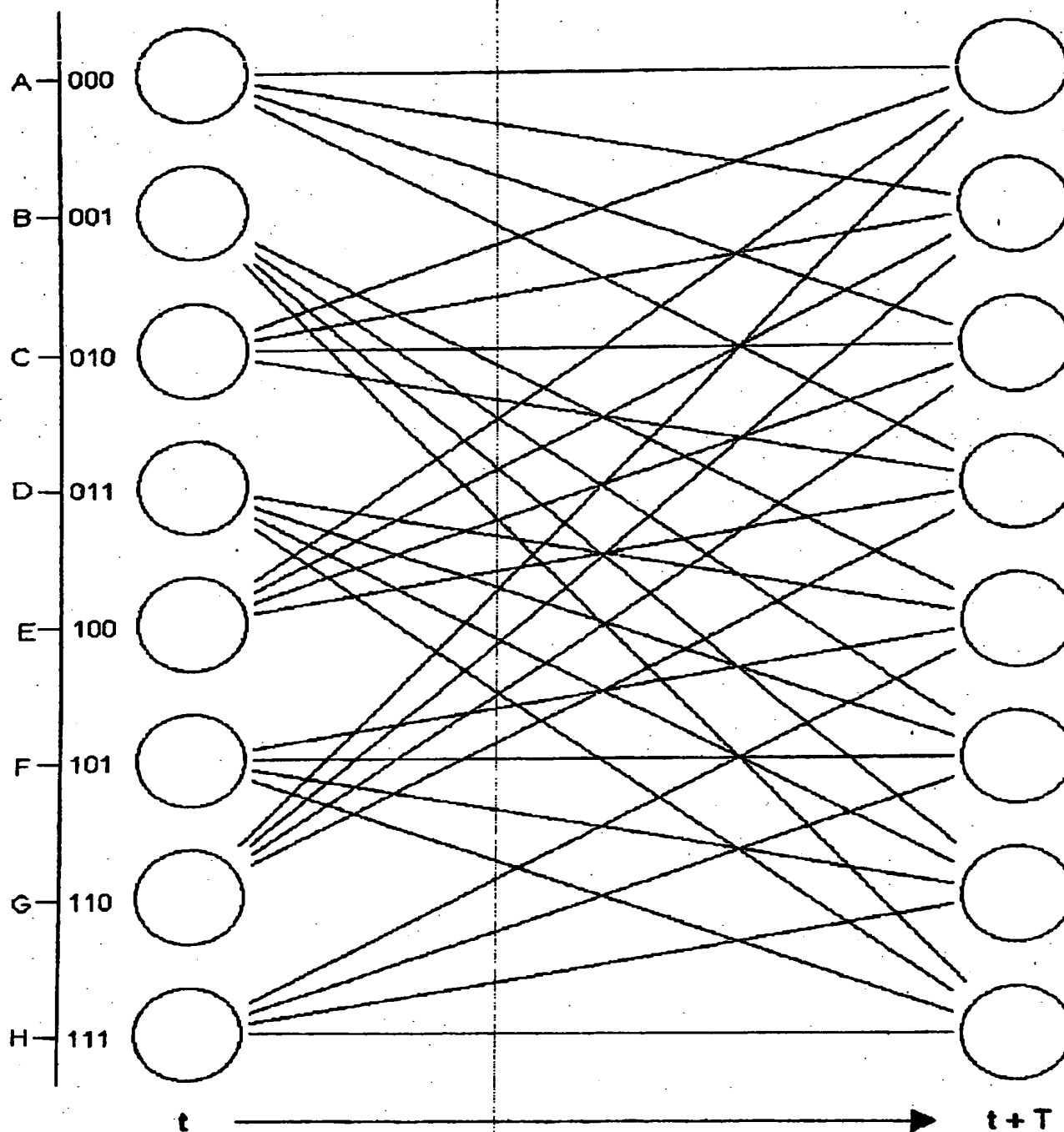


FIG. 6

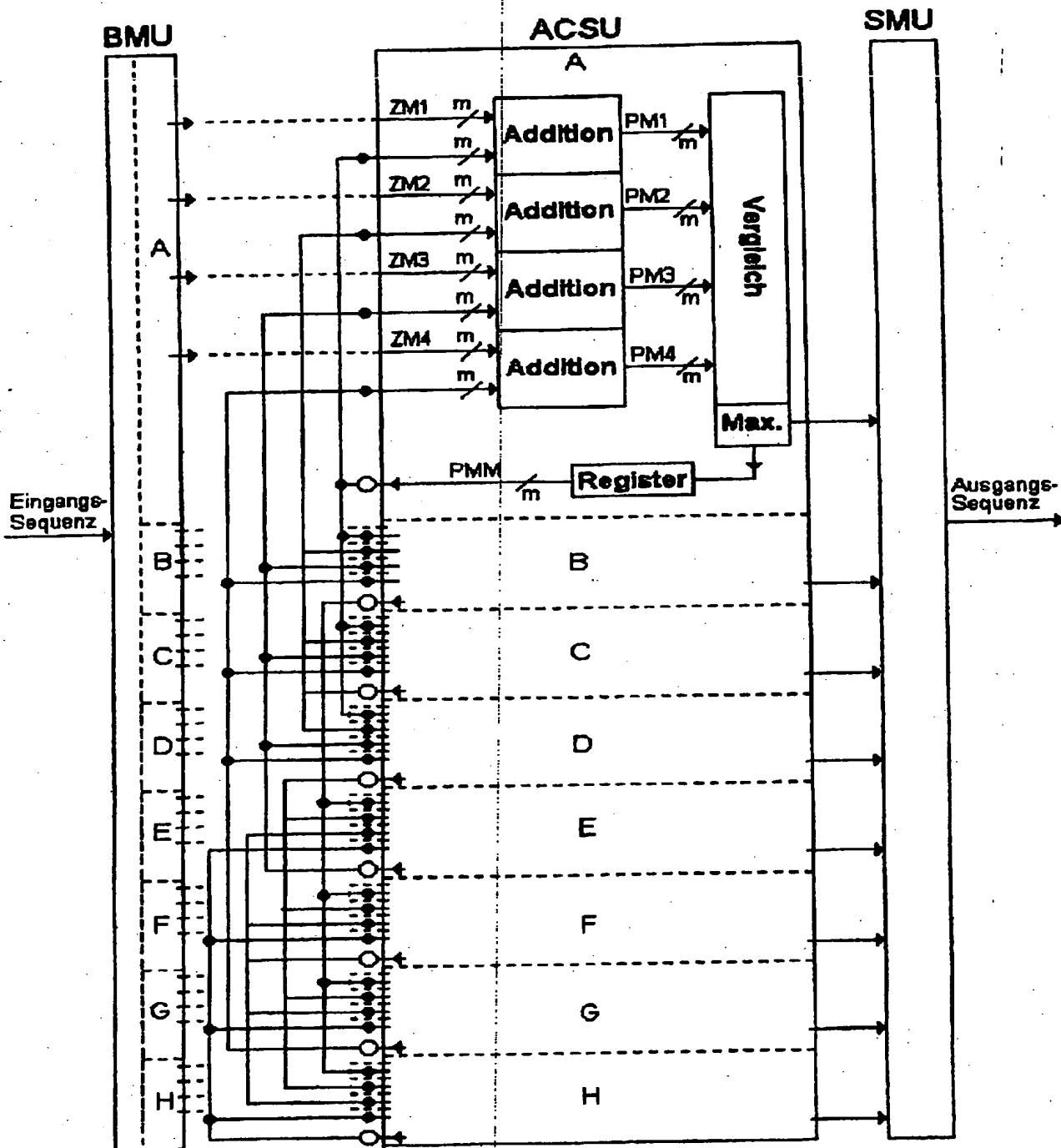


FIG. 7

ACSU-Abteilung A aus Fig. 7

← 1-Bit-Prozessorelemente PE1:4 für Bit (n+1) → 1-Bit-Prozessorelemente PE1:4 für Bit (n) →

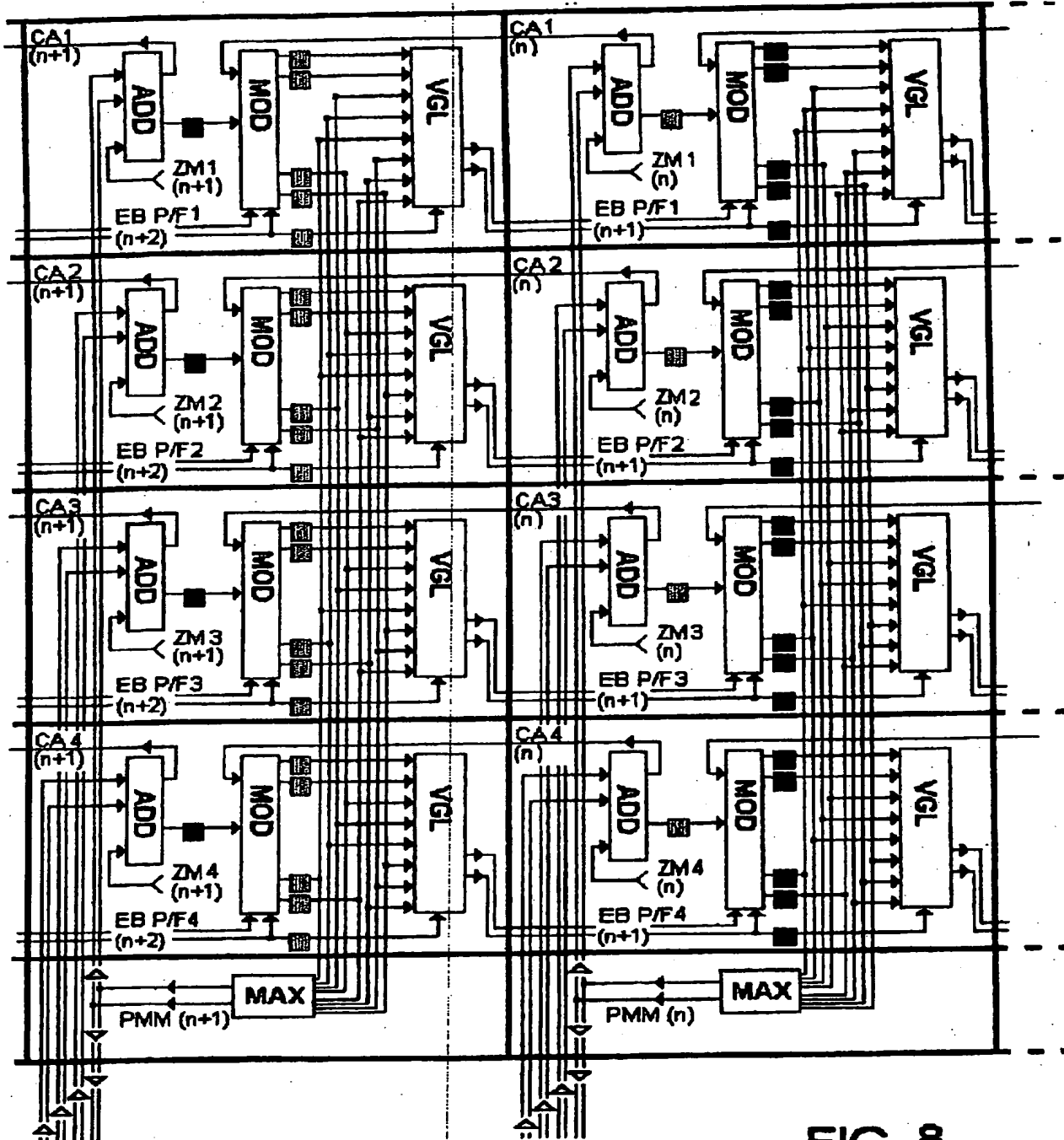


FIG. 8
Stand der Technik

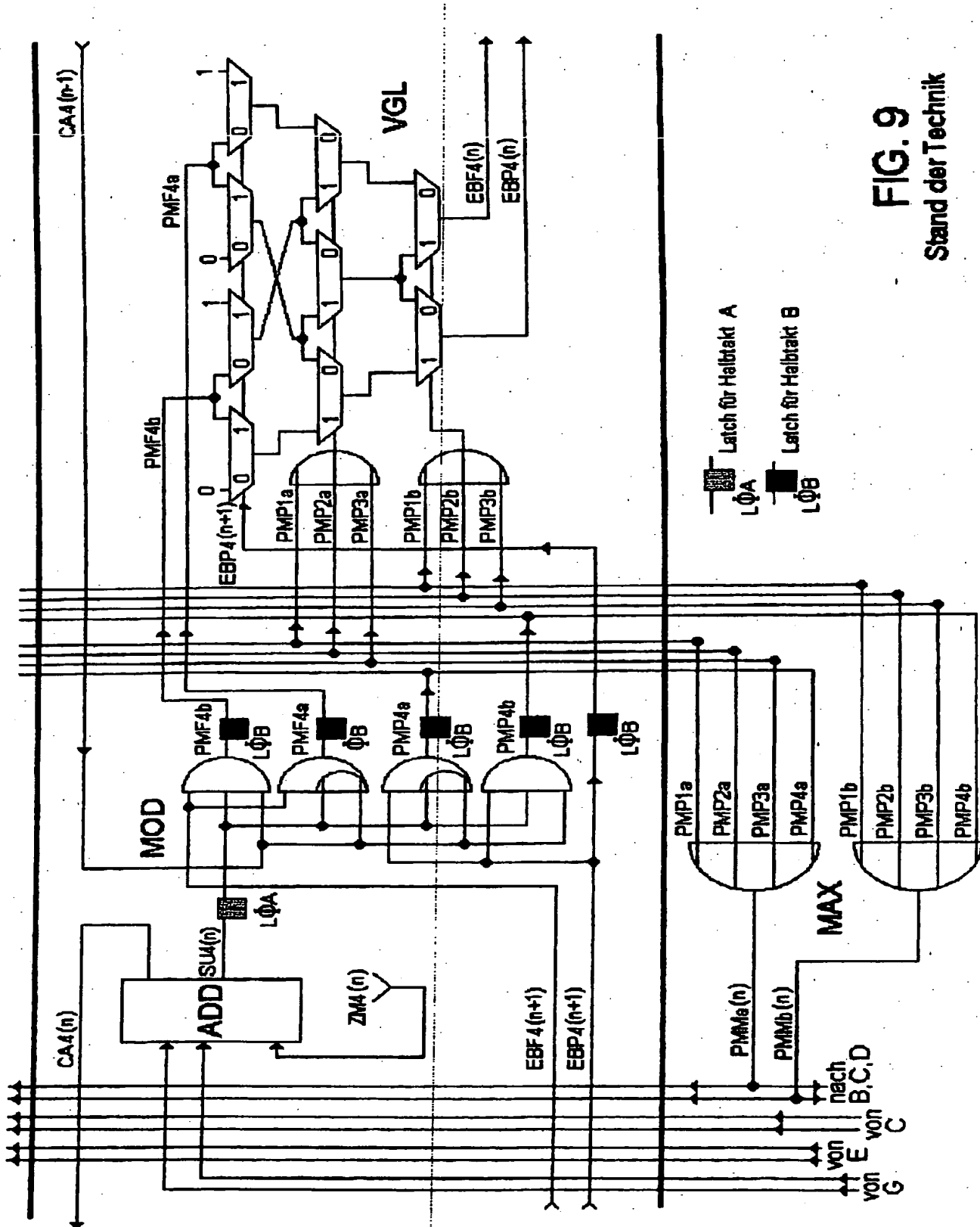


FIG. 9
 Stand der Technik

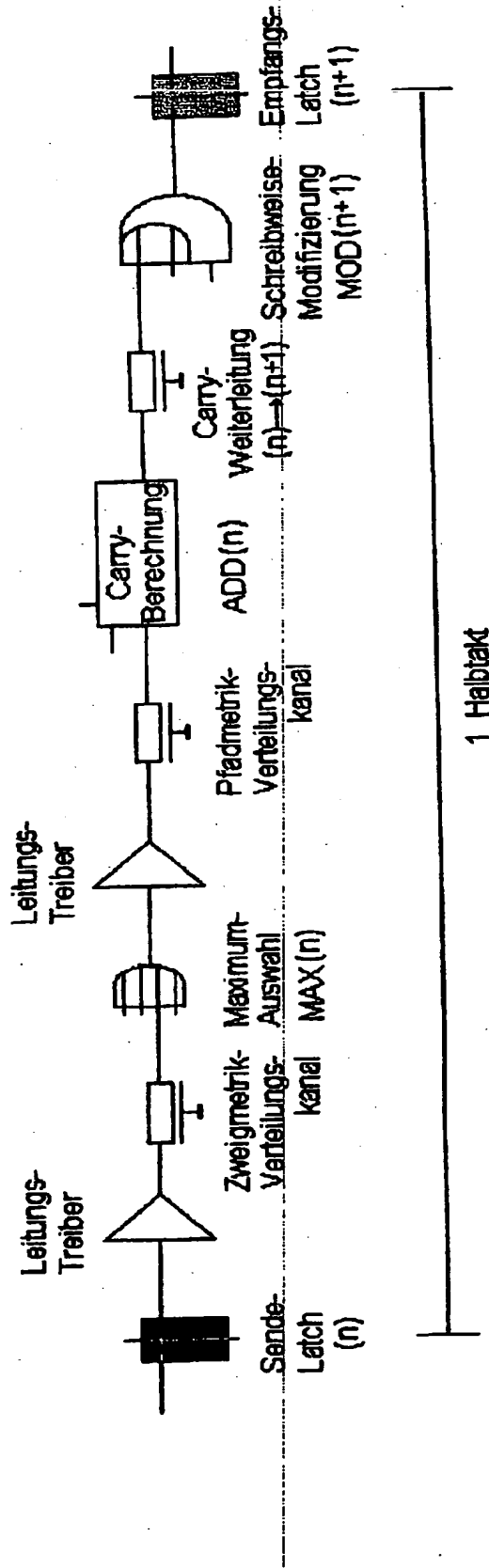


FIG. 10

Stand der Technik

ACSU-Abteilung A aus Fig. 7

(speziell: Prozessorelemente für Zweigmetrik ZM4)

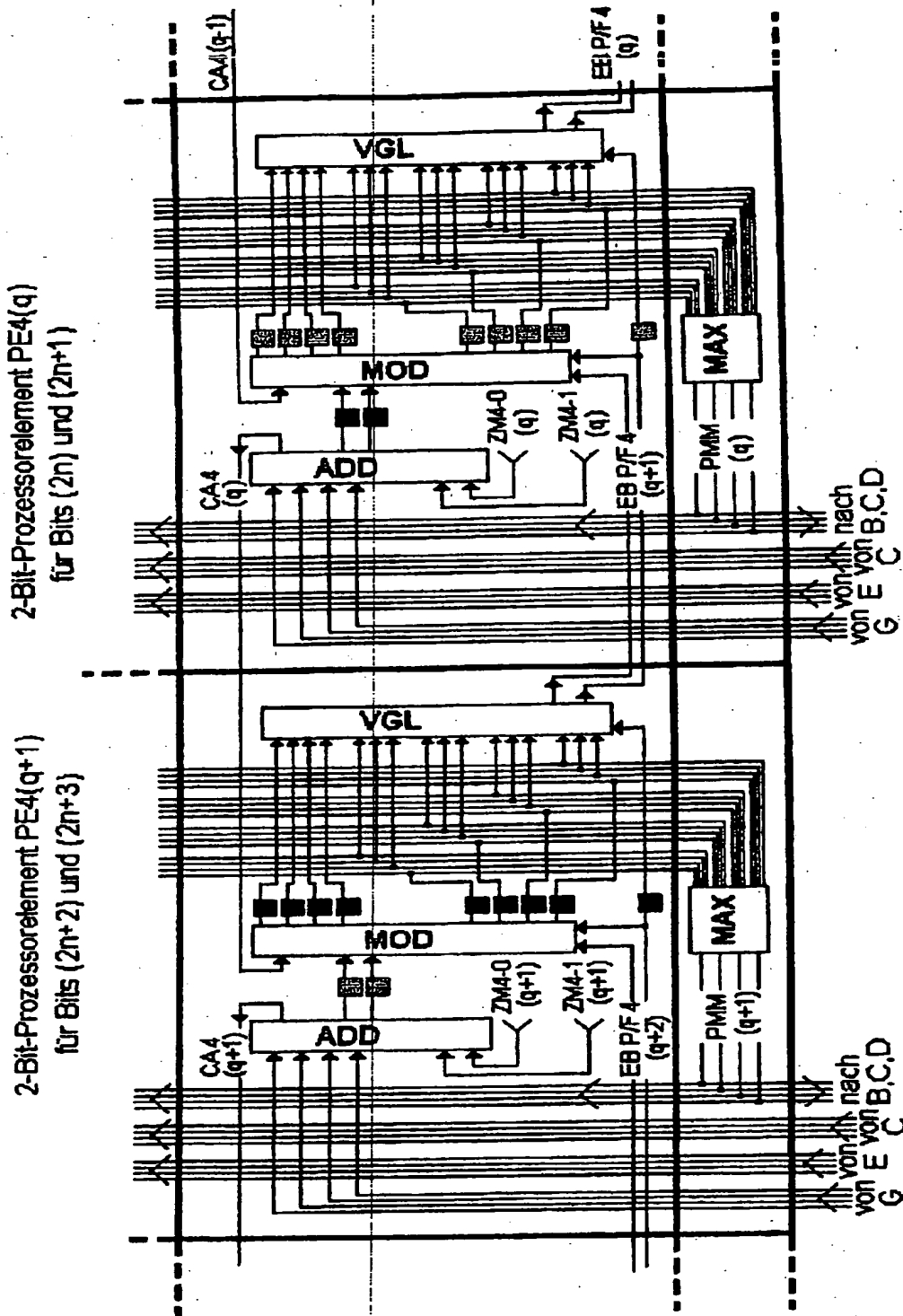


FIG. 11

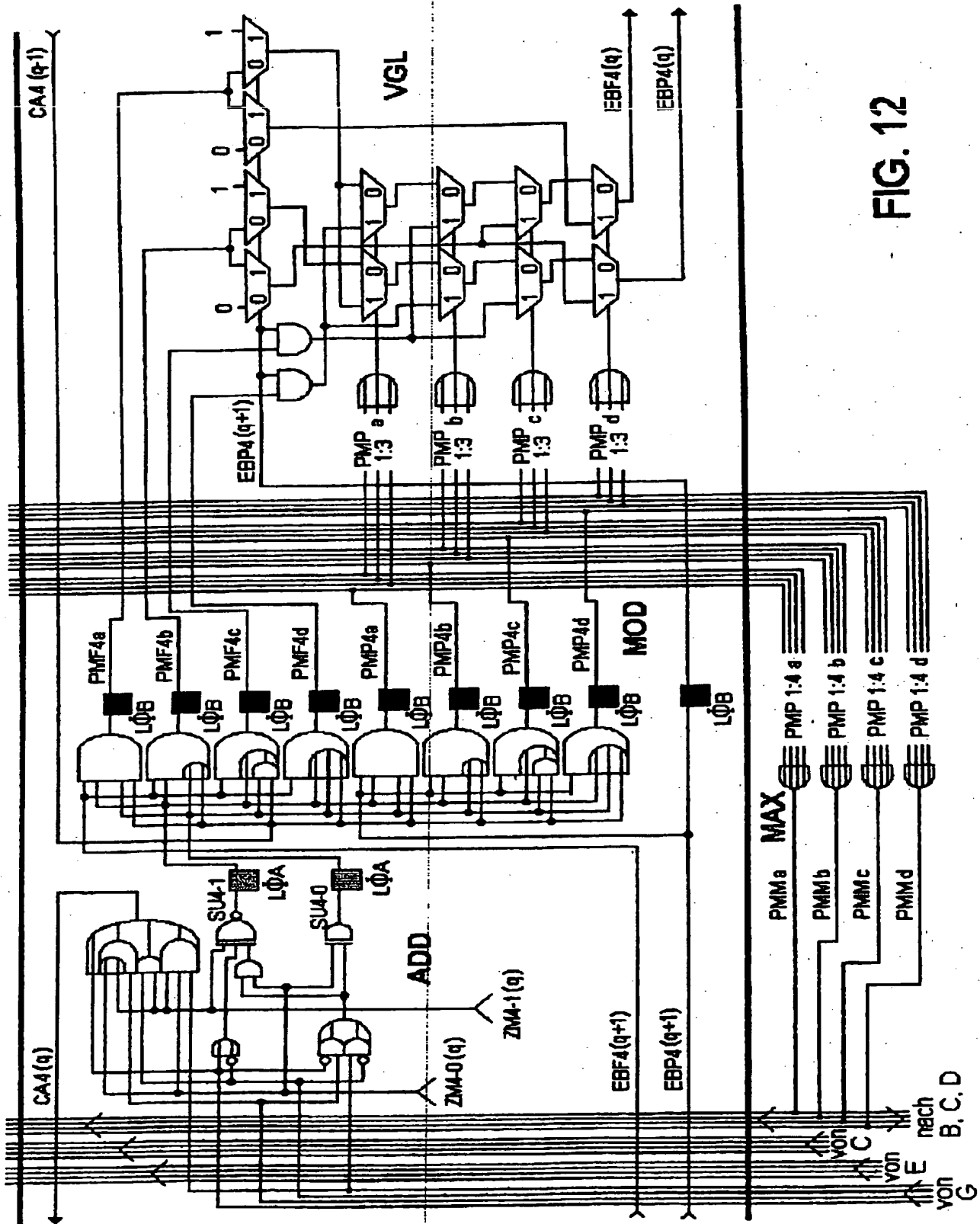


FIG. 12

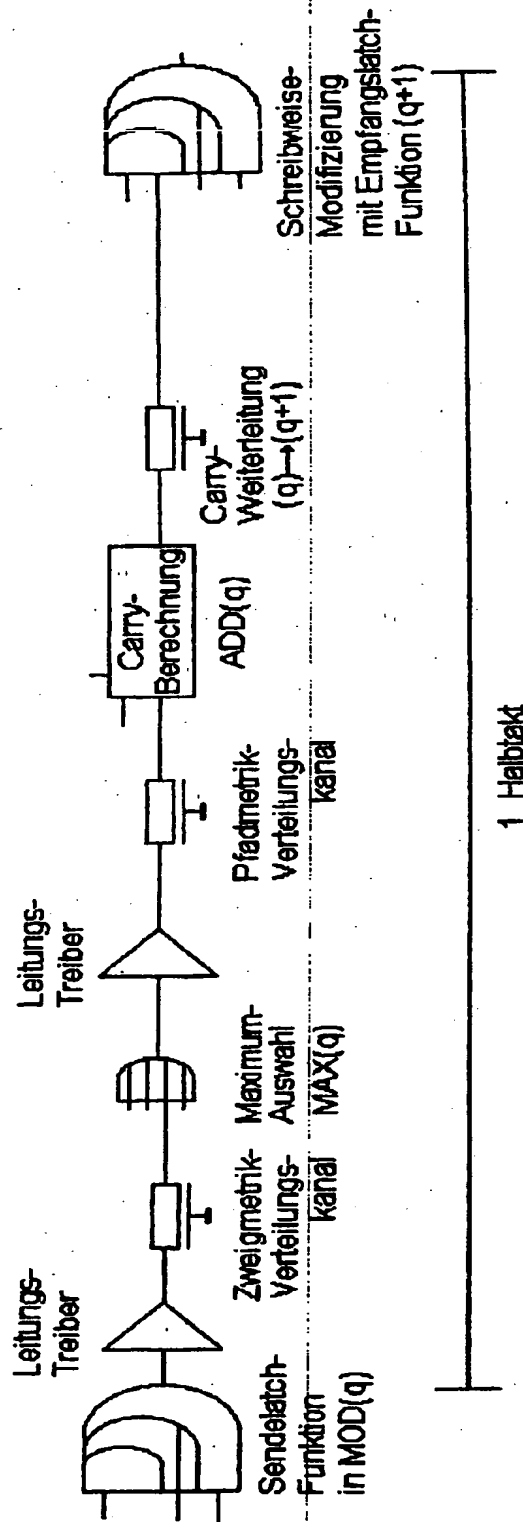


FIG. 13

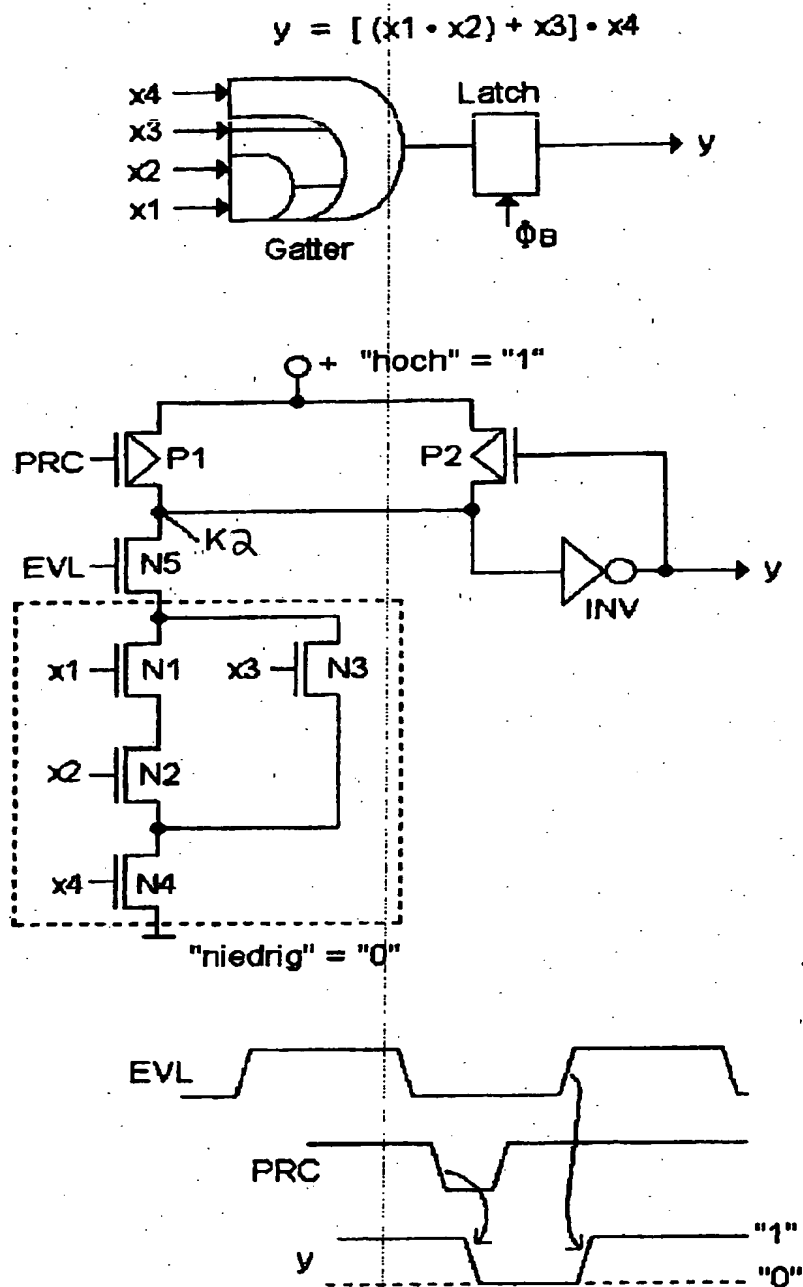


Fig. 14